

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/678,023
Source:	1FW16
Date Processed by STIC:	11/24/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER

VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND

TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04);
 U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/678,023
ATTN: NEW RULES CASES	: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
IWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
·2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid
	ATTN: NEW RULES CASES I Wrapped Nucleics Wrapped Aminos 2 Invalid Line Length Misaligned Aminon Numbering 4 Non-ASCII 5 Variable Length 6 Patentln 2.0 "bug" 7 Skipped Sequences (OLD RULES) 8 Skipped Sequences (NEW RULES) 9 Use of n's or Xaa's (NEW RULES) 10 Invalid <213> Response 11 Use of <220> 12 PatentIn 2.0 "bug"

AMC - Biotechnology Systems Branch - 09/09/2003



IFW16

RAW SEQUENCE LISTING

DATE: 11/24/2004

PATENT APPLICATION: US/09/678,023

TIME: 12:32:34

Input Set : A:\5.1158 Div 1 Sequence Listing.txt

Output Set: N:\CRF4\11242004\1678023.raw

SEQUENCE LISTING

4	(1) GENE	RAL INFORMATION:	Door
. 6	: (i)	APPLICANT: KAWASAKI, Hideki	Does Not Comply Corrected Diskette Need
7		TOKAI, Masaya	Diskette Na
8		KIKUCHI, Yasuhiro	14 0 60
9		OUCHI, Kozo	School Property of Property
11	(ii)	TITLE OF INVENTION: DNA ENCODING PROTEIN COMPLEMEN	TING
12		YEAST	
13		LOW TEMPERATURE-SENSITIVE FERM	ENTABILITY
15	(iii)	NUMBER OF SEQUENCES: 2	
17	(iv)	CORRESPONDENCE ADDRESS:	
18		(A) ADDRESSEE: FITZPATRICK, CELLA, HARPER & SCINT	0
19		(B) STREET: 30 Rockefeller Plaza	
20		(C) CITY: New York	
21		(D) STATE: New York	
22		(E) COUNTRY: U.S.A.	
23		(F) ZIP: 10112-3801	
25	(v)	COMPUTER READABLE FORM:	
26		(A) MEDIUM TYPE: Diskette - 3.50 inch, 1440 Kb st	orage.
29		(B) COMPUTER: IBM PS/V	
30		(C) OPERATING SYSTEM: MS-DOS Ver3.30	
31		(D) SOFTWARE: PATENT AID Ver1.0	
33	(vi)	CURRENT APPLICATION DATA:	
> 34		(A) APPLICATION NUMBER: US/09/678,023	
> 35		(B) FILING DATE: 04-Oct-2000	•
41	(vii)	PRIOR APPLICATION DATA:	•
> 38		(A) APPLICATION NUMBER: 08/894,344	
39		(B) FILING DATE: 15-AUGUST-1997	
> 42		(A) APPLICATION NUMBER: JP343700/95	
43		(B) FILING DATE: 28-DECEMBER-1995	
> 44		(A) APPLICATION NUMBER: PCT/JP96/03862	•
45		(B) FILING DATE: 27-DECEMBER-1996	
47	(viii)	ATTORNEY/AGENT INFORMATION:	
48		(A) NAME: Perry, Lawrence S.	α
49		(B) REGISTRATION NUMBER: 31865	$\mathcal{O}_{\mathbf{I}}$
51	(ix)	TELECOMMUNICATION INFORMATION:	<u> </u>
52		(A) TELEPHONE: 212-218-2100	
53	-	(B) TELEFAX: 212-218-2200	
		Y V	
		\ <u>\</u>	
ORED	SEQUENCE:	3	

ERRORED SEQUENCES

466 (2) INFORMATION FOR SEQ ID NO: 2:

PATENT APPLICATION: US/09/678,023

DATE: 11/24/2004 TIME: 12:32:34

Input Set : A:\5.1158 Div 1 Sequence Listing.txt

Output Set: N:\CRF4\11242004\1678023.raw

468	((i) S	EQUE	NCE	CHAR	RACTE	RIST	CICS:								
469						2958			cids	3						
470			(B)	TYPE	: an	nino	acid	1								
471	•		(D)	TOPO	LOGY	: li	.near	:								
473	i)	i) M	OLEC	ULE	TYPE	E: pr	otei	'n								
475	7)	7i) (
476			(A)	ORG	MISN	1: Sa	ccha	aromy	rces	cere	evisi	.ae				
477			(B)	STRA	NI:	X218	30-1E	3								
479						CRIPT							*			
481	Met	Glu	Ala	Ile	Ser	Gln	Leu	Arg	Gly	Val	Pro	Leu	Thr	His	Gln	Lys
483	1				5					10					15	
485	Asp	Phe	Ser	Trp	Val	Phe	Leu	Val	Asp	${\tt Trp}$	Ile	Leu	Thr	Val	Val	Val
487				20					25					30		_
489	Cys	Leu	Thr	Met	Ile	Phe	Tyr	Met	Gly	Arg	Ile	Tyr	Ala	Tyr	Leu	Val
491			35					40					45			_
493	Ser	Phe	Ile	Leu	Glu	${\tt Trp}$	Leu	Leu	Trp	Lys	Arg	Ala	Lys	Ile	Lys	Ile
495		50					55					60				
497	Asn	Val	Glu	Thr	Leu	Arg	Val	Ser	Leu	Leu	Gly	Gly	Arg	Ile	His	
499	65					70			•		75			_		80
501	Lys	Asn	Leu	Ser	Val	Ile	His	Lys	Asp		Thr	Ile	Ser	Val		Glu
503					85					90					95	
505	Gly	Ser	Leu	Thr	\mathtt{Trp}	Lys	Tyr	Trp	Leu	Leu	Asn	Cys	Arg		Ala	GIu
507				100					105				_	110	_	_
509	Leu	Ile	Glu	Asn	Asn	Lys	Ser	Ser	Ser	Gly	Lys	Lys		Lys	Leu	Pro
511			115					120			_	_	125			_
513	Cys	Lys	Ile	Ser	Val	Glu	Cys	Glu	Gly	Leu	Glu		Phe	He	Tyr	Asn
515		130					135	_			_	140	_	_	_	~7
517	Arg	Thr	Val	Ala	Tyr	Asp	Asn	Val	Ile	Asn		Leu	Ser	Lys	Asp	
519	145				_	150			_		155	_	51	D	~ 1	160
521	Arg	Asp	Lys	Phe		Lys	Tyr	Leu	Asn		His	Ser	Pne	Pro		Pro
523	_				165	_		_	_	170	3	a1	7	*	175	~1
525	Phe	Ser	Asp		Ser	Ser	Ala	Asp		ьeu	Asp	GIU	Asp		ser	GIU
527	_			180	1	_	a	7	185	O	T1_	1707	7 an	190	7. **	7 an
529	Ser	Ala		Thr	Thr	Asn	ser		Ата	ser	тте	Val		Asp	Arg	Asp
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533	Tyr		Glu	Thr	Asp	Ile		ьуѕ	HIS	Pro	ьуѕ		теп	Met	Pne	ьец
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537		Пе	GIu	Leu	ьys	Phe	ser	arg	GIY	ser		ьец	ьеα	GIY	ASII	цуS 240
539	225				TT - 7	230	T7.	T	C 0.00	Пт гэс	235	Cor	C1.	Two	Clar	
541	Phe	Thr	Pro	ser		Met	ire	ьец	ser		GIU	ser	GIY	пуъ	255	116
543		_		_	245	D	.	a1	7	250	7 ~~	τ	TT	7. ~~		Tvc
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547	1	~ 1		260	D1	T	7	Dha	265	т1 о	Cor	т1.	Tara		7 cn	Tla
549	Thr	Gin		GIU	Pne	Lys	ASII		GIU	тте	per	116	цу5 285	GIII	ASII	116
551	~1	m	275	7	7a T -	T] -	٠.	280	T ***	Dho	Tara	Tlo		Δνα	G117	Lare
553	GLy		Asp	Asp	ΑΙа	Ile		ьeu	ьys	ьпе	пур		ush	ALG	GIĀ	пур
555		290	T	.	m	T	295	Dh.	17a7	7	7707	300	Gl v	Tla	₹75-1	Thr
557		ser	гла	ьeu	rrp	Lys	THE	ыне	val	Arg	315	rne	GIII	116	v.a.ı	320
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RAW SEQUENCE LISTING PATENT APPLICATION: US/09/678,023 TIME: 12:32:34

DATE: 11/24/2004

Input Set : A:\5.1158 Div 1 Sequence Listing.txt
Output Set: N:\CRF4\11242004\I678023.raw

														_		_
561	Lys	Pro	Val	Val	Pro	Lys	Lys	Thr	Lys	Lys	Ser	Ala	Gly	Thr		Asp
563					325					330					335	_
565	Asp	Asn	Phe	Tyr	His	Lys	Trp	Lys	Gly	Leu	Ser	Leu	Tyr		Ala	Ser
567				340					345					350		
569	Ala	Gly	Asp	Ala	Lys	Ala	Ser	Asp	Leu	Asp	Asp	Val	Glu	Phe	Asp	Leu
5 71			355					360					365			
573	Thr	Asn	His	Glu	Tyr	Ala	Lys	Phe	Thr	Ser	Ile	Leu	Lys	Cys	Pro	Lys
575		370		•			375					380				
577	Val	Thr	Ile	Ala	Tyr	Asp	Val	Asp	Val	Pro	Gly	Val	Val	Pro	His	Gly
579	385					390					395					400
581	Ala	His	Pro	Thr	Ile	Pro	Asp	Ile	Asp	Gly	Pro	Asp	Val	Gly	Asn	Asn
583					405		_			410					415	
585	Glv	Ala	Pro	Pro	Asp	Phe	Ala	Leu	Asp	Val	Gln	Ile	His	Gly	Gly	Ser
587	1			420	•				425					430		-
589	Ile	Cvs	Tvr	Glv	Pro	Trp	Ala	Gln	Arg	Gln	Val	Ser	His	Leu	${\tt Gln}$	Arg
591		-1-	435	_		-		440	_				445			
593	Val	Leu		Pro	Val	Val	Ser	Arq	Thr	Ala	Lys	Pro	Ile	Lys	Lys	Leu
595		450					455	7			_	460				
597	Pro		Glv	Ser	Ara	Arg	Ile	Tyr	Thr	Leu	Phe	Arg	Met	Asn	Ile	Ser
599	465		1		5	470		-			475	_				480
601	Tle	Met.	Glu	Asp	Thr	Thr	Trp	Arq	Ile	Pro	Thr	Arg	Glu	Ser	Ser	Lys
603					485		-			490		_			495	
605	Asn	Pro	Glu	Phe	Leu	Lys	His	Tyr	Lys	Glu	Thr	Asn	Glu	Glu	Tyr	Arg
607	1105			500		_1		-	505					510		
609	Pro	Phe	Glv		Met	Asp	Leu	Arq	Phe	Cys	Lys	Asp	Thr	Tyr	Ala	Asn
611			515			, -		520		-	-		525			
613	Phe	Asn		Ser	Val	Cys	Pro	Thr	Val	Gln	Gly	Phe	Gln	Asn	Asn	Phe
615	1	530				- 1	535				-	540	•			
617	His		His	Phe	Leu	Glu	Thr	Glu	Ile	Arg	Ser	Ser	Val	Asn	His	Asp
619	545					550				_	555					560
621		Len	Leu	Lvs	Ser	Lys	Val	Phe	Asp	Ile	Asp	Gly	Asp	Ile	Gly	Tyr
623				2	565	1			-	570	_				575	
625	Pro	Leu	Glv	Trp		Ser	Lys	Ala	Ile	Trp	Ile	Ile	Asn	Met	Lys	Ser
627			1	580			•		585	_				590		
629	Glu	Gln	Leu		Ala	Phe	Leu	Leu	Arq	Glu	His	Ile	Thr	Leu	Val	Ala
631	014	0	595					600					605			
633	Agn	Thr		Ser	Asp	Phe	Ser		Glv	Asp	Pro	Thr	Pro	Tyr	Glu	Leu
635	nop	610		501			615			-		620		-		
637	Dha		Pro	Phe	Val	Tyr		Val	Asn	Trp	Glu	Met	Glu	Gly	Tyr	Ser
639	625		110			630	-1-				635			-	-	640
641	T16	Туг	T.e.11	Δan	Val		Asp	His	Asn	Ile		Asn	Asn	Pro	Leu	Asp
643	116	1 Y 1	пси	11011	645		1101			650					655	
	Dho	Λαn	Glu	Δen			T.e.ii	Ser	Len			Asp	Lvs	Leu		Ile
645	FIIC	Hom	GIU	660		- 7 -	104	001	665		1	1-	4	670		
647	7. ~~~	7707	ጥኤሎ			Arg	رر ای	Ser			Glv	Thr	Tvr		Asp	Met
649	Asp	val			FIO	ALY	ĢΙU	680			O-Y	-111	685		p	
651	Carr	TD	675		Co~	Th	Dro			Δτα	Met	Met			Thr	Pro
653	ser			TTG	PET	7 1 1 L	695		1110	*** 9		700				
655	Dece	690		ψh~	Lon	Δαν			Met	Tave	Hic			Va1	Glv	Arg
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PATENT APPLICATION: US/09/678,023

DATE: 11/24/2004 TIME: 12:32:34

Input Set : A:\5.1158 Div 1 Sequence Listing.txt Output Set: N:\CRF4\11242004\I678023.raw

659	705					710					715					720	
663	. Ala	Tyr	Asp	Phe	Thr	Ile	Lys	Gly	Ser	Tyr	Leu	Leu	Tyr	Ser	Glu	Leu	•
663	3	-	_		725					730					735		
665	ga Asp	Ile	Asp	Asn	Val	Asp	Thr	Leu	Val	Ile	Glu	Cys	Asn	Ser	Lys	Ser	
66'	_		_	740		-			745			-		750	-		
669		Val	Leu		Cvs	Tyr	Glv	Phe		Met	Ara	Tvr	T.e.11		Asn	Val	
67:		• • • •	755		0,0	- 1 -	011	760			5	1	765				•
673		Mot	Asn	TT TT	Dhe	Glar	Clu		Dho	λen	Dho	TeV		Car	@111	Glu	
	-			- y -	FIIC	Gry		FILE	FIIC	Abii	LIIC	780	1111	DCI	0	Oru	
675		770		77. T	T 4	a 1	775	7	a1	7707	a 1		777	The	mb~	Tira	
67	-		Gly	Val	ьеи	_	Ala	Arg	GIU	val		Asp	vai	TIIL	TIIL		
679			7			790		0	m1	**- 7	795	0	a1	m	a1	800	
68:		ser	Val	Ата	_	Leu	Ala	ser	mr		Asp	ser	GIY	TYL		ASII	
683		_	_	_	805	~7	_	~7	_	810	a 1	.		7	815	a	
68!		Ser	Leu	_		Glu	Ser	GIu		Lys	GIY	Pro	Met		Arg	ser	
68'				820					825		_			830		_	
689	_	Leu	Lys		Thr	Thr	Asn		Thr	Asp	Ile	\mathtt{Trp}		Thr	Phe	Ser	
69:			835					840					845				
693	3 Val	Trp	Asp	Gly	Ala	Leu	Įle	Leu	Pro	Glu	Thr	Ile	Tyr	Ser	Phe	Asp	
69	5	850					855					860					
69	7 Pro	Cys	Ile	Ala	Leu	His	Phe	Ala	Glu	Leu	Val	Val	Asp	Phe	Arg	Ser	
69	865					870					875					880	
70:	L Cys	Asn	Tyr	Tyr	Met	Asp	Ile	Met	Ala	Val	Leu	Asn	Gly	Thr	Ser	Ile	
70	3				885					890					895		
70		Arq	His	Val	Ser	Lys	Gln	Ile	Asn	Glu	Val	Phe	Asp	Phe	Ile	Arg	
70	_			900		1			905				-	910		_	
70:		Asn	Asn		Ala	Asp	Glu	Gln	Glu	His	Gly	Leu	Leu	Ser	Asp	Leu	
71:			915	1				920	-		-		925		-		
71:		Tle	His	Glv	His	Ara	Met		Glv	Leu	Pro	Pro	Thr	Glu	Pro	Thr	
71		930				5	935	-1-	1			940					•
71			Cys	Gl n	Trn	Asn		Asn	Len	Glv	Asp		Cvs	Tle	Asp	Ser	
71	₹		Cys	0111	115	950	110	11011	Вси	O-1	955		0,0		1100	960	
· 72:			Glu	Dho	Tla		G137	Dha	Dha	Δen		Dhe	Тут	T.y.c	Tle		
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72		<i>α</i> 1	Tyr	7		T 011	~1	7 an	T10		T ON	Пага	λαn	Thr		Thr	
72		GLY	TYL		_	цец	GIU	ASII	985	пец	'nеи	тут	тэр	990	GIU	1111	
72		7	7	980	•	Com	τ	mb w		1114 ~	17-1	~1	Tara		7.20	т1о	
72		Asn	Asp	Met	Thr	ser	ьeu			HIS	vai	GIU			Arg	ire	
73		_	995		_	7		100		a 1	a	**- 7	100!		7 J -	61	
73	_		Lys	Asp	Pro	vai			Ser	GIN	ser			ser	Ala	GIU	
73.		101					101				_	102		_	_	~7	•
73			Leu	Phe	Thr			Asp	Phe	GIu			ьуs	Tyr			
E> 73	9 102	5				103	0				103	5		•	5	1040	<i>1</i>
E> 74																	-
74	l Arg	Ile	Asp	Val	-		Pro	Lys	Leu					Asn	_	Val	0.0
E> 74			•		104			,		105			,		105	5	(i) ()
74	5 Met	Gly	Asp	Gly	Val	Asp	Thr	Ser			Lys	Phe	Glu	Thr	Lys	Leu	Il Vesse
E> 74				106					106					107			V
74	9 Arg	Phe	Thr	Asn	Phe	Glu	Gln	Tyr	Lys	Asp	Ile	Asp	Lys	Lys	Arg	Ser	a l. Mala
E> 75	L		107	5				108	0				108	5			renty for
75.	3 Glu	Gln	Arg	Arg	Tyr	Ile	Thr	Ile	His	Asp	Ser	Pro	Tyr	His	Arg	Cys	Please verify your
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PATENT APPLICATION: US/09/678,023 TIME: 12:32:34

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Input Set : A:\5.1158 Div 1 Sequence Listing.txt
Output Set: N:\CRF4\11242004\1678023.raw

,		_						_								
E>			L090				109				_	1100		_	~3	_
	75 7		Phe L	eu Le	u Pro			Tyr	GIn	Asp			Thr	Tyr		
E>	759	1105				1110					1115		_			L120
	761	Leu T	Tyr G	ly Al	a Ile	Ala	Pro	Ser	Ser	Ser	Ile	Pro	Thr	Leu		
E>	763				112	-				1130					1135	
	765	Pro I	Chr L	eu Pr	o Asp	${ t Thr}$	Ile	Asp	Tyr	Ile	Ile	Glu	Asp	Ile	Val	Gly
E>	767				40				1145					1150		
	769	Glu I	Cyr A	la Th	r Leu	Leu	Glu	Thr	Thr	Asn	Pro	Phe	Lys	Asn	Ile	Phe
E>	771	•		.155				1160					1165			
	773	Ala G	}lu T	hr Pr	o Ser	Thr	Met	Glu	Pro	Ser	Arg	Ala	Ser	Phe	Ser	Glu
E>	775	_	L170				117					1180			-	
	777	Asp A	Asp A	sn As	p Glu	Glu	Ala	Asp	Pro	Ser	Ser	Phe	Lys	Pro	Val	Ala
E>	779	1185				1190	כ				1195	5			1	L200
	781	Phe T	Thr G	lu As	p Arg	Asn	His	Glu	Arg	Asp	Asn	Tyr	Val	Val	Asp	Val
E>	783				120	5				1210)				1215	5 .
	785	Ser T	Tyr I	le Le	u Leu	Asp	Val	Asp	Pro	Leu	Leu	Phe	Ile	Phe	Ala	Lys
E>	787			12	20				1225	5				1230)	
	789	Ser I	Leu L	eu Gl	u Gln	Leu	Tyr	Ser	Glu	Asn	Met	Val	Gln	Val	Leu	Asp
E>	791		1	.235				1240)				1245	5		
	793	Asp I	[le G	lu Il	e Gly	Ile	Val	Lys	Arg	Leu	Ser	Asn	Leu	Gln	Glu	Gly
E>	795	1	L250				125	5				1260)			
	797	Ile T	Chr S	er Il	e Ser	Asn	Ile	Asp	Ile	His	Ile	Ala	Tyr	Leu	Asn	Leu
E>	799	1265				1270)				1275	5			1	L280
	801	Ile T	Crp G	ln Gl	u Thr	Gly	Glu	Glu	Gly	Phe	Glu	Leu	Tyr	Leu	Asp	Arg
E>	803 .				128	5				1290)				129	5
	805	Ile A	Asp T	yr Gl	n Met	Ser	Glu	Lys	Ser	Leu	Glu	Lys	Asn	Arg	Thr	Asn
E>	807			13	00				130	5			•	1310)	
	809	Lys I	Leu L	eu Gl	u Val	Ala	Ala	Leu	Ala	Lys	Val	Lys	Thr	Val	Arg	Val
E>	811		1	.315				1320)				1325	5		
	813	Thr V	Jal A	sn Gl	n Lys	Lys	Asn	Pro	Asp	Leu	Ser	Glu	Asp	Arg	Pro	Pro
E>	815	1	L330				133	5				1340)			
	817	Ala I	Leu S	er Le	u Gly	Ile	Glu	Gly	Phe	Glu	Val	Trp	Ser	Ser	Thr	Glu
E>	819	1345				1350					1355					L360
	821	Asp A	Arg G	ln Va	l Asn	Ser	Leu	Asn	Leu	Thr	Ser	Ser	Asp	Ile	Thr	Ile
E>	823				136					1370					1375	
	825	Asp G	3lu S	er Gl	n Met	${ t Glu}$	Trp	Leu	Phe	Glu	Tyr	Cys	Ser	Asp	Gln	Gly
E>	827				80				1385					1390		
	829	Asn I	Leu I	le Gl	n Glu	Val	Cys	Thr	Ser	Phe	Asn	Ser	Ile	Gln	Asn	Thr
E>	831			.395				1400					140			
	833	Arg S	Ser A	sn Se	r Lys	Thr	Glu	Leu	Ile	Ser	Lys	Leu	Thr	Ala	Ala	Ser
E>	835		L410				141					1420				
	837	Glu I	Tyr T	yr Gl	n Ile	Ser	His	Asp	Pro	Tyr	Val	Ile	Thr	Lys	Pro	Ala
E>	839	1425		•		1430					1435					L440
	841	Phe I	[le M	let Ar	g Leu	Ser	Lys	Gly	His	Val	Arg	Glu	Asn	Arg	$\operatorname{\mathtt{Ser}}$	\mathtt{Trp}
E>	843				144					1450					145	
	845	Lys I	[le I	le Th	r Arg	Leu	Arg	His	Ile	Leu	Thr	\mathtt{Tyr}	Leu	Pro	Asp	Asp
E>	847			14					1465					1470		
	849	Trp G	3ln S	er As	n Ile	Asp	Glu	Val	Leu	Lys	Glu	Lys	Lys	Tyr	Thr	Ser
E>	851		1	475				1480)				1485	5		

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	853	Ala	Lys		Ala	Lys	Asn			Met	Ser				Thr	Trp	Arg
E>	855		1490	-				1495					1500			_	_
	857	Asn	\mathtt{Trp}	Glu	Phe	Ser			Ala	Arg	Ser			Tyr	GLY		
E>	859	150					1510				_	1515			_		L520 -
	861	Phe	Thr	Ala	Glu			Lys	His	Lys			Leu	He	Lys		
E>	863					1525					1530		_			1535	
	865	Leu	Lys	Cys	Thr	Met	Gly	Ser	Phe			Thr	Val	Tyr			GLY
E>	867				1540					1545			_		1550		
	869	Tyr	Glu			His	Asn	Phe			Ala	Asp	Ala			Val	Val
E>	871			155					1560					1565			
	873	Asp	Leu	Thr	Pro	Pro	Val			Leu	Pro	Ser			Glu	GIu	Thr
E>	875		1570					157				_	1580		_,		_
	877	Ile	Glu	Ile	Thr	Gly			Gly	Ser	Val			Lys	Phe		
E>	879	158					1590			_		1595					L600
	881	Arg	Leu	Leu	Lys			Asp	Leu	Ile			He	Ala	Ala		
E>	883					1609		_	_	_	1610		_	_	~ 1	1615	
	885	Glu	Asp	Asp			Asp	Pro	Lys			Leu	ser	ьуs			гур
E>		*			1620			_		162			_	~ 7	1630		
	889	Met	Asn			Leu	Leu	Val			Ser	GIu	Leu			vaı	Met
E>			_	163		_		_	1640		7	~1	~ 3	164	-	0	т
	893	Asp	Gln		Lys	Leu	Met			Thr	Val	GIY			vaı	ser	ьeu
E>			1650		_	_	_	165	_	1	_	~ 1.	1660	-	a	· ·	
	897		Trp	Glu	Asn	Leu			ser	Thr	ser			GIY	ser		
E>		166		_		_	1670				-	167		ml			1680
	901	Ile	Phe	Ser	GIn			GIu	vaı	Trp			HIS	Thr	ser		
E>		_				168				Dl	1690	-	T	77.	The	169	
	905	Leu	Gly	Glu			ьeu	Arg	Asp			vai	ьeu	Ala	171		Giu
E>				a	170		D	mle se	71.	170		7 an	7 an	Cln			Acn
_	909	Ala	Trp			гуѕ	PIO	1111	1720		116	ASII	ASII	172		AIG.	дар
E>		.	His	171:		70 7 70	Mot	Cox			C1.,	Gln	Lou			λla	Tle
_	913	ьeu			Arg	Ala	мес	173		1111	GIU.	GIII	174		1111	пта	110
E>		mb x	173 0 Glu		7 ~~	Clu	Car			Μρτ	Tle	T.375			Tle	Lvs	Phe
E>	917	174		116	Arg	Giu	175		Mec	ricc	110	175		**** 9			1760
	921		Pro	Tare	Ser	Lvc			Ser	Gln	Phe			Gln	Lvs		
E>		цуз	110	шуы	DCI	176		1 ,5	501	0111	177		1156		-1-	177	
	925	Thr	Val	T. - 311	Ser		-	Phe	Ser	Asn			Ser	Glu	Val		
E>		1111	vai	пси	178		- 7 -	1110	001	178					179		
B7	929	T.e11	Ser	Pro			Tle	Ara	His			Lvs	Gln	Leu			Tyr
E>		шец	DCI	179		-1-		5	180					180			-
5>	933	Dhe	Δcn			Glv	Ser	Asn			Leu		Ser			Asp	Thr
E>		1110	181	_		U 1		181					182		-	-	
B>	937	Asn			Met	Thr	Ser			Thr	Lvs	Glu			Leu	Arq	Phe
E>		182		1110			183				-1	183		-			1840
5>	941	Ser	Phe	Glv	Asp	Tle			Lvs	Glv	Glv			Arq	Glu	Gly	Tyr
E>		DOL	1.10	1		184			-1-	1	185			J		185	
	945	Ser	Leu	Ιle	Asn			Ile	Ser	Ile			Ile	Lys	Leu		
E>		201			186		~ -			186				4	187		
/	949	Ser	Glu	Pro			Ile	Va]	Asn			Leu	Gln	Asp			Leu
					5	5					-			_		-	

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E--> 951 1880 1885 Ala Ser Gln Gly Ile Asn Leu Leu Tyr Ser Leu Lys Pro Leu Phe Phe 953 1895 E--> 955 1900 957 Ser Ser Asn Leu Pro Lys Lys Glu Lys Gln Ala Pro Ser Ile Met Ile E--> 959 1910 1915 Asn Trp Thr Leu Asp Thr Ser Ile Thr Tyr Phe Gly Val Leu Val Pro 961 , 4 • 1925 1930 E--> 963 Val Ala Ser Thr Tyr Phe Val Phe Glu Leu His Met Leu Leu Leu Ser 965 19401940 1948 1945 1950 E--> 966 Leu Thr Asn Thr Asn Asn Gly Met Leu Pro Glu Glu Thr Lys Val Thr 968 1965 1955 1960 E--> 970 Gly Gln Phe Ser Ile Glu Asn Ile Leu Phe Leu Ile Lys Glu Arg Ser 972 1980 1970 1975 E--> 974 Leu Pro Ile Gly Leu Ser Lys Leu Leu Asp Phe Ser Ile Lys Val Ser 976 1995 1990 E--> 978 Thr Leu Gln Arg Thr Val Asp Thr Glu Gln Ser Phe Gln Val Glu Ser 980 E--> 982 2005 2010 Ser His Phe Arq Val Cys Leu Ser Pro Asp Ser Leu Leu Arg Leu Met 984 2020 2025 E--> 986 Trp Gly Ala His Lys Leu Leu Asp Leu Ser His Tyr Tyr Ser Arg Arg 988 2040 E--> 990 2045 His Ala Pro Asn Ile Trp Asn Thr Lys Met Phe Thr Gly Lys Ser Asp 992 2060 E--> 994 2055 Lys Ser Lys Glu Met Pro Ile Asn Phe Arg Ser Ile His Ile Leu Ser 996 E--> 998 2075 2070 Tyr Lys Phe Cys Ile Gly Trp Ile Phe Gln Tyr Gly Ala Gly Ser Asn 1000 2085 2090 E--> 1002 Pro Gly Leu Met Leu Gly Tyr Asn Arg Leu Phe Ser Ala Tyr Glu Lys 1004 2105 E--> 1006 2100 2110 Asp Phe Gly Lys Phe Thr Val Val Asp Ala Phe Phe Ser Val Ala Asn 1008 2120 2125 2115 E--> 1010 Gly Asn Thr Ser Ser Thr Phe Phe Ser Glu Gly Asn Glu Lys Asp Lys 1012 2140 2135 E--> 1014 Tyr Asn Arg Ser Phe Leu Pro Asn Met Gln Ile Ser Tyr Trp Phe Lys 1016 2155 2150 E--> 1018 Arg Cys Gly Glu Leu Lys Asp Trp Phe Phe Arg Phe His Gly Glu Ala 1020 2170 E--> 1022 2165 Leu Asp Val Asn Phe Val Pro Ser Phe Met Asp Val Ile Glu Ser Thr 1024 2185 E--> 1026 2180 Leu Gln Ser Met Arg Ala Phe Gln Glu Leu Lys Lys Asn Ile Leu Asp 1028 2205 2200 E--> 1030 Val Ser Glu Ser Leu Arg Ala Glu Asn Asp Asn Ser Tyr Ala Ser Thr 1032 • 2220 2215 E--> 1034 Ser Val Glu Ser Ala Ser Ser Ser Leu Ala Pro Phe Leu Asp Asn Ile 1036 2230 2235 E--> 1038 Arg Ser Val Asn Ser Asn Phe Lys Tyr Asp Gly Gly Val Phe Arg Val 1040 2245 2250 E--> 1042Tyr Thr Tyr Glu Asp Ile Glu Thr Lys Ser Glu Pro Ser Phe Glu Ile 1044 2265 E--> 1046

I-please Correct. Klad line Ord Jollowing Views

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	1048	Lys	Ser			Val	Thr	Ile	Asn	Cys	Thr	Tyr	Lys	His	Asp	Glu	Asp
E>	1050			227					2280								
	1052	Lys			Pro	His	Lys				Leu				Asp	Pro	Thr
E>	1054		229										2300				
	1056			Thr	Leu	Tyr		_	Cys	Ala	Pro	Leu	Leu	Met	Glu	Phe	Ser
E>	1058	230					2310	-				231			•		320
	1060	Glu	Ser	Leu	Gln	Lys	Met	Ile	Lys	Lys	His	Ser	Thr	Asp	Glu	Lys	Pro
E>	1062					2325					2330					2335	
	1064	Asn	Phe	Thr			Ser	Ser	Gln	Asn	Val	Asp	Tyr	Lys	Arg	Leu	Leu
E>	1066				234					234					2350		
	1068	Asp	Gln	Phe	Asp	Val	Ala	Val	Lys	Leu	Thr	Ser	Ala	Lys	Gln	Gln	Leu
E>	1070			235					2360					2365			
,	1072	Ser			Cys	Glu	Pro			Lys	۷al	Gln	Ala	Asp	Val	Gly	Phe
E>	1074		2370					2375					2380				
	1076			Phe	Leu	Phe			Ala	Thr	Asn			Asp	Ser	Glu	Gln
E>	1078	2385		_			2390					239					400
	1080	Pro	Leu	Glu	Phe			Thr	Leu	Glu	His		Lys	Ala	Ser		_
E>	1082	1			_	2405		_		_	2410					2415	
_	1084	His	Ile	Phe			Glu	Val	Ser		Ser	Phe	Glu	·Val	_		Met
E>	1086	_	_		2420					242		_			2430		_
_	1088	Asp	Leu			Leu	Phe	Thr			Asp	Val	Ile			Tyr.	Gly
E>	1090	ml	a 3	2435		a	3	*	2440		7.1	_,	_	2445		~7	_
	1092	THE			vai	ser	Asp			vai	Phe	Pne			ьуs	GIn	ьeu
E>	1094	Cl n	2450		TT	T 011	Dho	2455		T] _	(T) = 0 = 0	7	2460		G	Tl.	T
E>		2465		теп	ıyı	ьец	2470		Asp	тте	Trp	2475		ser	ser		
B>	1100			Δra	Dro	17-1			Thr	บาไ	Asn			Tla	C1,,		480
E>		1112	1111	лгу	FIO	2485		Arg	1111	vai	2490	_	GIU	116	GIU	2495	
	1104	Ser	Len	Thr	Ser			Tvr	Δla	Δen			Thr	Glu	Tlo		
E>			200		2500			- 1 -	1114	2505		019		·	2510		115
	1108	Cvs	Phe	Thr			Phe	Thr	Asn		Ser	Glv	Asn	Val			Glv
E>		-1		2515					2520			0-1		2525			
	1112	n			-	34-4	_										Δla
E>		Pro	Ser	Leu	GIV	Met	Ile	Ser	Leu	Ara	Thr	Gln	Ara			Leu	
	1114	Pro	Ser 253 0		GIY	мет	Ile			Arg	Thr	Gln		Thr		Leu	AΙα
			2530)				2535	5				2540	Thr	Trp		
E>	1116		2530 Asp)	Tyr		Glu	2535 Lys	5		Thr Leu		254 0 His	Thr	Trp	Thr	Asp
E>	1116	Thr 2545	2530 Asp) His	Tyr	Asn	Glu 255 0	2535 Lys	Arg	Gln	Leu	Leu 255 5	254 0 His	Thr) Ala	Trp Phe	Thr 2	Asp 560
E>	1116 1118 1120	Thr 2545	2530 Asp) His	Tyr	Asn	Glu 2550 Ser	2535 Lys	Arg	Gln		Leu 255 5 Ser	254 0 His	Thr) Ala	Trp Phe	Thr 2	Asp 560 Val
	1116 1118 1120	Thr 2545	2530 Asp Ile	His Ser	Tyr Leu	Asn Thr 2565	Glu 2550 Ser	2535 Lys Glu	Arg Gly	Gln Arg	Leu Leu 2570	Leu 2555 Ser	2540 His Gly	Thr) Ala Leu	Trp Phe Phe	Thr 2 Glu 2575	Asp 560 Val
	1116 1118 1120 1122 1124	Thr 2545 Gly	2530 Asp Ile	His Ser	Tyr Leu	Asn Thr 2565 Trp	Glu 2550 Ser	2535 Lys Glu	Arg Gly	Gln Arg	Leu Leu 2570 Lys	Leu 2555 Ser	2540 His Gly	Thr) Ala Leu	Trp Phe Phe	Thr 2 Glu 2575 Lys	Asp 560 Val
E>	1116 1118 1120 1122 1124	Thr 2545 Gly Ala	2530 Asp Ile Asn	His Ser Ala	Tyr Leu Ser 2580	Asn Thr 2565 Trp	Glu 2550 Ser Leu	2535 Lys Glu Ser	Arg Gly Glu	Gln Arg Val 2585	Leu Leu 2570 Lys	Leu 2555 Ser Trp	2540 His Gly Pro	Thr Ala Leu Pro	Trp Phe Phe Glu 2590	Thr 2 Glu 2575 Lys	Asp 560 Val Ser
E>	1116 1118 1120 1122 1124 1126 1128	Thr 2545 Gly Ala	2530 Asp Ile Asn	His Ser Ala	Tyr Leu Ser 2580 His	Asn Thr 2565 Trp	Glu 2550 Ser Leu	2535 Lys Glu Ser	Arg Gly Glu	Gln Arg Val 2585 Thr	Leu Leu 2570 Lys	Leu 2555 Ser Trp	2540 His Gly Pro	Thr Ala Leu Pro	Trp Phe Phe Glu 2590 Asp	Thr 2 Glu 2575 Lys	Asp 560 Val Ser
E>	1116 1118 1120 1122 1124 1126 1128	Thr 2545 Gly Ala Lys	Asp Ile Asn Asn	His Ser Ala Thr 2595	Tyr Leu Ser 2580	Asn Thr 2565 Trp Pro	Glu 2550 Ser Leu Leu	2535 Lys Glu Ser Val	Arg Gly Glu Ser 2600	Gln Arg Val 2585 Thr	Leu Leu 2570 Lys	Leu 2555 Ser Trp Leu	2540 His Gly Pro	Thr Ala Leu Pro Ile 2605	Trp Phe Phe Glu 2590 Asp	Thr 2 Glu 2575 Lys Asp	Asp 560 Val Ser Ile
E>	1116 1118 1120 1122 1124 1126 1128 1130 1132	Thr 2545 Gly Ala Lys	Asp Ile Asn Asn	His Ser Ala Thr 2595 Lys	Tyr Leu Ser 2580	Asn Thr 2565 Trp Pro	Glu 2550 Ser Leu Leu	Lys Glu Ser Val	Arg Gly Glu Ser 2600 Tyr	Gln Arg Val 2585 Thr	Leu Leu 2570 Lys Ser	Leu 2555 Ser Trp Leu	2540 His Gly Pro	Thr Ala Leu Pro Ile 2605	Trp Phe Phe Glu 2590 Asp	Thr 2 Glu 2575 Lys Asp	Asp 560 Val Ser Ile
E> E>	1116 1118 1120 1122 1124 1126 1128 1130 1132	Thr 2545 Gly Ala Lys Ala	Asp Ile Asn Asn Val 2610	His Ser Ala Thr 2595 Lys	Tyr Leu Ser 2580 His	Asn Thr 2565 Trp Pro Ala	Glu 2550 Ser Leu Leu Phe	Lys Glu Ser Val Asp 2615	Arg Gly Glu Ser 2600 Tyr	Gln Arg Val 2585 Thr His	Leu Leu 2570 Lys Ser	Leu 2555 Ser Trp Leu	2540 His Gly Pro Asn Leu 2620	Thr Ala Leu Pro Ile 2605 Ile	Trp Phe Phe Glu 2590 Asp Gly	Thr 2 Glu 2575 Lys Asp	Asp 560 Val Ser Ile
E> E>	1116 1118 1120 1122 1124 1126 1128 1130 1132 1134 1136	Thr 2545 Gly Ala Lys Ala Ser 2625	Asp Ile Asn Asn Val 2610 Asn	His Ser Ala Thr 2595 Lys	Tyr Leu Ser 2580 His Ala	Thr 2565 Trp Pro Ala Phe	Glu 2550 Ser Leu Leu Phe His 2630	Lys Glu Ser Val Asp 2615 Leu	Arg Gly Glu Ser 2600 Tyr His	Gln Arg Val 2585 Thr His	Leu 2570 Lys Ser Met	Leu 2555 Ser Trp Leu Phe Lys 2635	2540 His Gly Pro Asn Leu 2620 Asp	Thr Ala Leu Pro Ile 2605 Ile Ala	Trp Phe Phe Glu 2590 Asp Gly Lys	Thr 2 Glu 2575 Lys Asp Thr Gly	Asp 560 Val Ser Ile Ile Val 640
E> E> E>	1116 1118 1120 1122 1124 1126 1128 1130 1132 1134 1136	Thr 2545 Gly Ala Lys Ala Ser 2625	Asp Ile Asn Asn Val 2610 Asn	His Ser Ala Thr 2595 Lys	Tyr Leu Ser 2580 His Ala	Thr 2565 Trp Pro Ala Phe	Glu 2550 Ser Leu Leu Phe His 2630	Lys Glu Ser Val Asp 2615 Leu	Arg Gly Glu Ser 2600 Tyr His	Gln Arg Val 2585 Thr His	Leu Leu 2570 Lys Ser Met	Leu 2555 Ser Trp Leu Phe Lys 2635	2540 His Gly Pro Asn Leu 2620 Asp	Thr Ala Leu Pro Ile 2605 Ile Ala	Trp Phe Phe Glu 2590 Asp Gly Lys Ile	Thr 2 Glu 2575 Lys Asp Thr Gly 2 Ile	Asp 560 Val Ser Ile Ile Val 640 Leu
E> E> E>	1116 1118 1120 1122 1124 1126 1128 1130 1132 1134 1136 1138 1140 1142	Thr 2545 Gly Ala Lys Ala Ser 2625 Leu	Asp Ile Asn Asn Val 2610 Asn	His Ser Ala Thr 2595 Lys Ile Asp	Tyr Leu Ser 2580 His Ala His	Thr 2565 Trp Pro Ala Phe Leu 2645	Glu 2550 Ser Leu Leu Phe His 2630 Gln	2535 Lys Glu Ser Val Asp 2615 Leu	Arg Gly Glu Ser 2600 Tyr His	Gln Arg Val 2585 Thr His Asn	Leu 2570 Lys Ser Met Glu Ser 2650	Leu 2555 Ser Trp Leu Phe Lys 2635 Ser	2540 His Gly Pro Asn Leu 2620 Asp	Thr Ala Leu Pro Ile 2605 Ile Ala Glu	Trp Phe Phe Glu 2590 Asp Gly Lys Ile	Thr 2 Glu 2575 Lys Asp Thr Gly 2 Ile 2655	Asp 560 Val Ser Ile Ile Val 640 Leu
E> E> E> E>	1116 1118 1120 1122 1124 1126 1128 1130 1132 1134 1136 1138 1140	Thr 2545 Gly Ala Lys Ala Ser 2625 Leu	Asp Ile Asn Asn Val 2610 Asn	His Ser Ala Thr 2595 Lys Ile Asp	Tyr Leu Ser 2580 His Ala His	Thr 2565 Trp Pro Ala Phe Leu 2645	Glu 2550 Ser Leu Leu Phe His 2630 Gln	2535 Lys Glu Ser Val Asp 2615 Leu	Arg Gly Glu Ser 2600 Tyr His	Gln Arg Val 2585 Thr His Asn	Leu 2570 Lys Ser Met Glu Ser	Leu 2555 Ser Trp Leu Phe Lys 2635 Ser	2540 His Gly Pro Asn Leu 2620 Asp	Thr Ala Leu Pro Ile 2605 Ile Ala Glu	Trp Phe Phe Glu 2590 Asp Gly Lys Ile	Thr 2 Glu 2575 Lys Asp Thr Gly 2 Ile 2655	Asp 560 Val Ser Ile Ile Val 640 Leu

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E>	1146			:	2660)				2665	5				2670	1	
	1148	Ile	Val A	Arg I	Met	Arg	Gln	Asp	Asn	Lys	Ile	Ser	Tyr	Met	Glu	Thr	Leu
E>	1150			2675					2680					2685			
	1152	Arq	Asp S	Ser Z	Asn	Pro	Gly	Glu	Ser	Arq	Gln	Pro	Ile	Leu	Tyr	Lys	Asp
E>	1154	J	2690				_	2695		_			2700				
	1156	Ile	Leu A	Arq	Ser	Leu	Lys	Leu	Leu	Arg	Thr	Asp	Leu	Ser	Val	Asn	Ile
E>	1158	270		-			2710			_		2715					720
	1160	Ser	Ser S	Ser 1	Lys	Val	Gln	Ile	Ser	Pro	Ile	Ser	Leu	Phe	Asp	Val	Glu
E>	1162				_	2725					2730					2735	
	1164	Val	Leu V	Val :	Ile	Arg	Ile	Asp	Lys	Val	Ser	Ile	Arg	Ser	Glu	Thr	His
E>	1166				2740			_		2745					2750		
	1168	Ser	Gly I	Lys :	Lys	Leu	Lys	Thr	Asp	Leu	Gln	Leu	Gln	Val	Leu	Asp	Val
E>	1170			2 7 55			-		2760					2765			
	1172	Ser	Ala A	Ala :	Leu	Ser	Thr	Ser	Lys	Glu	Glu	Leu	Asp	Glu	Glu	Val	Gly
E>	1174		2770					2775	5				2780)			
	1176	Ala	Ser :	Ile 2	Ala	Ile	Asp	Asp	Tyr	Met	His	Tyr	Ala	Ser	Lys	Ile	Val
E>	1178	278					2790										
	1180	Gly	Gly 5	Thr	Ile	Ile	Asp	Ile	${\tt Pro}$	Lys	Leu	Ala	Val	His	Met	Thr	Thr
E>	1182					2805	-				2810					2815	
	1184	Leu	Gln (Glu	Glu	Lys	Thr	Asn	Asn	Leu	Glu	Tyr	Leu	Phe	Ala	Cys	Ser
E>	1186				2820	_				2825					2830		
	1188	Phe	Ser A	Asp :	Lys	Ile	Ser	Val	Arg	Trp	Asn	Leu	Gly	Pro	Val	Asp	Phe
E>	1190		-	2835					2840					2845			
	1192	Ile	Lys (Glu I	Met	${\tt Trp}$	Thr	Thr	His	Val	Lys	Ala	Leu	Ala	Val	Arg	Arg
E>	1194		2850					285	-				2860				
	1196	Ser	Gln '	Val .	Ala	Asn	Ile	Ser	Phe	Gly	Gln			Glu	Glu		
E>	1198	286	-				2870					2875	_				2880
	1200	Glu	Ser	Ile	Lys	_		Glu	Ala	Ala							
E>	1202					2885	_) _					
	1204	Leu	Glu				Ile	Glu	Val			Ile	Arg	Asp			Asp
E>	1206				2900	-				290			_		2910		<u>.</u>
	1208	Ala	Thr :			Met	Glu	Trp			Val	Asn	Arg			Phe	Pro
E>	1210			2915		_		_	2920					2925			_
	1212	Lys	Phe '		His	Gln	Thr			Ile	Pro	Val			Leu	Val	Tyr
E>	1214		2930					293			_	_	2940				
	1216		Ala	Glu	Lys	Gln			Lys	Ile	Leu			Thr	Hls		
E>	1218	294	5				2950	כ				295!)				

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/678,023

DATE: 11/24/2004 TIME: 12:32:35

Input Set : A:\5.1158 Div 1 Sequence Listing.txt

Output Set: N:\CRF4\11242004\1678023.raw

L:34 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:35 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:44 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)

L:60 M:220 C: Keyword misspelled or invalid format, [(C) STRANDEDNESS:]

L:739 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2

M:332 Repeated in SeqNo=2